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NOTICE OF ALLOWANCE AND FEE(S) DUE

24998

7590

06/05/2009

DICKSTEIN SHAPIRO LLP 1825 EYE STREET NW Washington, DC 20006-5403 EXAMINER

JOHNSTON, PHILLIP A

ART UNIT PAPER NUMBER

2881 DATE MAILED: 06/05/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/734,261	12/15/2003	Mitsugu Sato	H6808.0005/P005-A	1481

TITLE OF INVENTION: CHARGED PARTICLE BEAM ALIGNMENT METHOD AND CHARGED PARTICLE BEAM APPARATUS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/08/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450

Alexandria, Virginia 22313-1450 (571)-273-2885 or <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for

maintenance fee notifications. Note: A certificate of mailing can only be used for domestic mailings of the CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. 24998 7590 06/05/2009 Certificate of Mailing or Transmission DICKSTEIN SHAPIRO LLP I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below. 1825 EYE STREET NW Washington, DC 20006-5403 (Depositor's name (Signature (Date ATTORNEY DOCKET NO. APPLICATION NO. FILING DATE FIRST NAMED INVENTOR CONFIRMATION NO. 10/734,261 12/15/2003 H6808.0005/P005-A 1481 Mitsugu Sato TITLE OF INVENTION: CHARGED PARTICLE BEAM ALIGNMENT METHOD AND CHARGED PARTICLE BEAM APPARATUS APPLN. TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1510 \$300 \$0 \$1810 09/08/2009 **EXAMINER** ART UNIT CLASS-SUBCLASS JOHNSTON, PHILLIP A 2881 250-491100 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. or agents OR, alternatively, (2) the name of a single firm (having as a member a ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) 4a. The following fee(s) are submitted: lssue Fee A check is enclosed. Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number ______ (enclose an extra copy of this fo Advance Order - # of Copies _ (enclose an extra copy of this form). 5. Change in Entity Status (from status indicated above) a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ■ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2). NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. Authorized Signature Date Typed or printed name Registration No. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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24998 73	590 06/05/2009		EXAMINER	
DICKSTEIN SHAPIRO LLP			JOHNSTON, PHILLIP A	
1825 EYE STREE			ART UNIT	PAPER NUMBER
Washington, DC 20006-5403			2881	
		DATE MAILED: 06/05/2009		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	Application No.	Applicant(s)	
Notice of Allowability	10/734,261	SATO ET AL.	
Notice of Allowability	Examiner	Art Unit	
	PHILLIP A. JOHNSTON	2881	
The MAILING DATE of this communication apportant All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communicated IGHTS. This application is subjection	s application. If not included ation will be mailed in due course. THI s	
1. \boxtimes This communication is responsive to <u>the amendment filed</u>	<u>3-23-2009</u> .		
2. The allowed claim(s) is/are <u>25,29,30,32,33,36 and 37</u> .			
 3. Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do 	e been received. e been received in Application No	o	.
International Bureau (PCT Rule 17.2(a)).	realization in the poem received in	and national dage application from the	•
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	MENT of this application. nitted. Note the attached EXAMIN	NER'S AMENDMENT or NOTICE OF	
INFORMAL PATENT APPLICATION (PTO-152) which giv	. , -	ciaration is deficient.	
5. CORRECTED DRAWINGS (as "replacement sheets") must		TO 049) attached	
(a) ☐ including changes required by the Notice of Draftspers1) ☐ hereto or 2) ☐ to Paper No./Mail Date	· ·	10-948) attached	
(b) ☐ including changes required by the attached Examiner	<u>-</u>	no Office action of	
Paper No./Mail Date	s Amendment / Comment or in t	le Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT 			
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Inform	al Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summ		
3. Information Disclosure Statements (PTO/SB/08),	Paper No./Mail 7.	endment/Comment	
Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stat	ement of Reasons for Allowance	
of Biological Material	9.		
/David A Vanore/			
Primary Examiner, Art Unit 2881			

Detailed Action

1. This Office Action is submitted in response to Amendment filed 3-23-2009, wherein claims 26-28, 31, and 34 have been canceled, and new claims 36 and 37 have been added. Claims 25, 29, 30, 32, 33, 36, and 37 are pending.

Examiners Response to Arguments

2. The examiner agrees with the arguments filed 3-23-2009 that the prior art cited in the previous Office Action fails to disclose the now claimed invention and the rejections therein are hereby withdrawn.

Allowable Subject Matter

3. Claims 25, 29, 30, 32, 33, 36, and 37 are allowed

Examiner's statement of reasons for allowance

The following is an examiner's statement of reasons for allowance:

4. The prior art discloses a charged particle beam apparatus that includes means for calculating the deflector alignment adjustment (correction) based upon the image movement amount detected from the focal point adjustment process carried out with an objective lens (an optical element), and a formula that indicates the value of the adjustment amount applied to an alignment deflector that is calculated based upon the relationship between a parameter and the image movement amounts. See for example, USPN 6,067,164 to Onoguchi; and USPN

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5,627,373 to Keese. However, the prior art fails to show the use of a formula that calculates the amount of image movement after applying a predetermined signal to the alignment deflector as compared the amount of image movement before applying the predetermined signal to the alignment deflector.

5. Claims 36 and 37 are allowed because the prior art fails to show a means for calculating the deflector alignment adjustment (correction) based upon the image movement amount detected from the focal point adjustment process carried out with an optical element, and a formula that indicates the value of the image movement amount after applying a predetermined signal to the alignment deflector as compared to the value of the image movement amount before applying the predetermined signal to the alignment deflector.

6. Claims 25, 29, 30, 32, and 33 are allowed by virtue of their dependency upon allowed claim 36.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

7. Any inquiry concerning this communication or earlier communications should be directed to Phillip Johnston whose telephone number is (571) 272-2475. The examiner can normally be reached on Monday-Friday from 7:00 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiners supervisor Robert Kim

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can be reached at (571) 272-2293. The fax phone number for the organization where the application or proceeding is assigned is 571 273 8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PJ May 29, 2009 /David A Vanore/

Primary Examiner, Art Unit 2881